



Mia
Wood/ENF/R8/USEPA/US
03/17/2008 11:12 AM

To Mia Wood/ENF/R8/USEPA/US@EPA
cc
bcc
Subject Silver Maples - Silver Creek Mining Area

----- Forwarded by Mia Wood/ENF/R8/USEPA/US on 03/17/2008 11:10 AM -----



Maureen
O'Reilly/ENF/R8/USEPA/US
03/14/2008 08:14 AM

To Mia Wood/ENF/R8/USEPA/US@EPA
cc
Subject Fw: Lower Silver Creek report on the web

Mia - We have no enforcement going on at Lower Silver Creek, but there has been a long standing ADR process going on there. Here is some information that the USGS generated as a result of years of work on this matter. Interesting.

----- Forwarded by Maureen O'Reilly/ENF/R8/USEPA/US on 03/14/2008 08:13 AM -----



"Michele Straube"
<mstraube@mindspring.com
>
03/06/2008 07:10 AM

To
cc
Subject Fw: Lower Silver Creek report on the web

Rather than double-checking that Briant had the most current distribution list for Lower Silver Creek stakeholders, I've forwarded the announcement again. Sorry for the duplication for many of you.

Michele Straube, Mediator/Facilitator
CommUnity Resolution, Inc.
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----- Original Message -----

From: Briant A Kimball
Sent: Tuesday, March 04, 2008 1:09 PM
Subject: Lower Silver Creek report on the web

Good news. The USGS report has been served to the web. I am using one of Michele's mailing lists to send this news out. The pdf file can be downloaded from the following URL. The report titled: "Principal Locations of Metal Loading from Flood-Plain Tailings, Lower Silver Creek, Utah, April 2004" has been released.

The URL is:

<http://pubs.usgs.gov/sir/2007/5248/>

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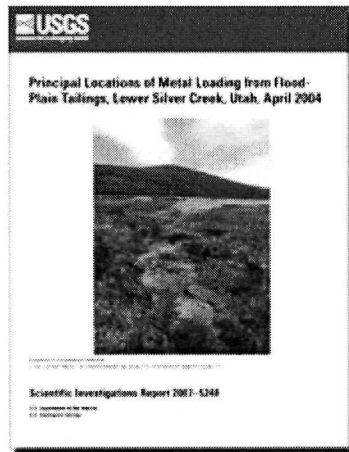


Scientific Investigations Report 2007-5248

U.S. GEOLOGICAL SURVEY

Scientific Investigations Report 2007-5248

Principal Locations of Metal Loading from Flood-Plain Tailings, Lower Silver Creek, Utah, April 2004



Prepared in cooperation with
Utah Department of Environmental Quality, Division of Water Quality

By Briant A. Kimball, Robert L. Runkel, and Katherine Walton-Day

Abstract

Because of the historical deposition of mill tailings in flood plains, the process of determining total maximum daily loads for streams in an area like the Park City mining district of Utah is complicated. Understanding the locations of metal loading to Silver Creek and the relative importance of these locations is necessary to make science-based decisions. Application of tracer-injection and synoptic-sampling techniques provided a means to quantify and rank the many possible source areas. A mass-loading study was conducted along a 10,000-meter reach of Silver Creek, Utah, in April 2004. Mass-loading profiles based on spatially detailed discharge and chemical data indicated five principal locations of metal loading. These five locations contributed more than 60 percent of the cadmium and zinc loads to Silver Creek along the study reach and can be considered locations where remediation efforts could have the greatest effect upon improvement of water quality in Silver Creek.

Contents

Abstract

Introduction

- Purpose and Scope

- Description of the Study Area

- Previous Work

- Acknowledgments

Methods for Mass-Loading Approach

- Tracer Injection and Synoptic Sampling

- Load Calculation

- Sample Classification

Discharge from Tracer Dilution

Chemical Variation of Synoptic Samples

- Inflow Samples

Stream Samples
Principal Locations of Mass Loading
Upstream from the Study Reach
Upper Meadow Tailings Piles
Lower Meadow Tailings Piles
Upstream from Pivotal Promontory Access Road
Waste-Water Treatment Plant and Old Big 4 Mill Tailings
Other Sources
Comparison between 2002 and 2004
Summary and Conclusions
References Cited

This report is available online in Portable Document Format (PDF). If you do not have the **Adobe Acrobat PDF Reader**, it is available for free download from Adobe Systems Incorporated.

Download the report (PDF, 1.8 MB)

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Send questions or comments about this report to the author, **Briant A. Kimball**, (801) 908-5047

For more information about USGS activities in Utah, visit the **USGS Utah Water Science Center home page**.

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